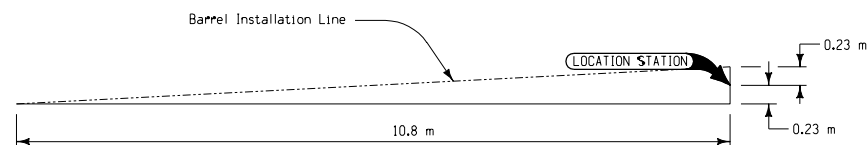
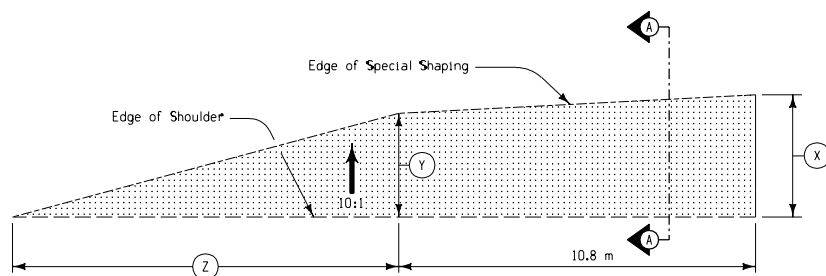


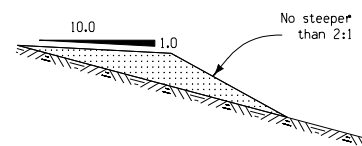
TYPICAL PLAN



BARREL INSTALLATION LINE LAYOUT



SPECIAL SHAPING LAYOUT DETAILS



SECTION A-A

#### GENERAL NOTES:

Details indicated hereon are for a typical installation of sand-filled plastic barrels for temporary protection of an obstacle. Sand barrels manufactured by Roadway Safety Service Inc. (Fitch), Energy Absorption Inc., or Traffic Devices Inc. are acceptable. Sand barrels shall be installed according to manufacturer's instructions. Installation area shall be graded flat.

Refer to project plans including "Tabulation of Temporary Barrel Installation" for additional requirements.

The Contractor shall furnish one additional set of barrels to be stored at the site so it is available at any time. In the event of an accident, these additional barrels are used as replacements. A new set of barrels shall then be obtained so a backup set is always available. Initiation of service to a damaged installation shall be within one hour of notification. At no time will traffic be exposed to an unprotected obstacle for more than 12 hours.

The price bid for "Temporary Attenuator, Sand-Filled Plastic Barrel Arrays" as per plan, shall be full compensation for furnishing, placing the barrels at the designated locations, and filling the barrels to the prescribed mass.

The price bid for "Embankment-in-Place" in cubic meters shall be full compensation for the construction of the special shaping area as detailed on this sheet.

Temporary side obstacle protection with sand-filled barrels is often used when traffic on a four-lane divided facility is routed to head-to-head traffic on only one side. Depending on how traffic is staged, the same set of barrels may be used at more than one location. Because of this, the total number of barrel sets needed is often less than the number of locations tabulated.

All dimensions given in millimeters unless noted.

M REVISION		Iowa Department of Transportation Project Development Division	
		<b>STANDARD ROAD PLAN</b>	<b>RE-73</b>
		REVISION: Added additional barrels to conform to manufacturers requirements	REVISION NO. 4
		APPROVED BY: <i>[Signature]</i> 01-10-00 DESIGN METHOD ENGINEER	REVISION DATE 04-25-00
		TEMPORARY PROTECTION OF SIDE OBSTACLES WITH SAND-FILLED BARRELS	